

NII, Y. et al.  
Appl. No. 10/006,246  
Response to Office Action dated September 23, 2005

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently Amended): An inside-vehicle information communication method, comprising the steps of:

causing a server, provided in a vehicle, to output a request for electronic ticket vehicle using right information, possessed by a user, to an electric device possessed by a passenger of the vehicle the user, upon receipt of a request for connection from ~~outputted by~~ the electric device;

causing the server to receive the electronic ticket vehicle using right information, outputted from the electric device upon receipt of the request for the electronic ticket vehicle using right information; and

causing the server to confirm, based on the electronic ticket information, whether the passenger electric device has a the using right to use of the vehicle or not, in accordance with the vehicle using right information, and to allow the an electric device having the using right to be connected to the server to enable communication therebetween in the vehicle if the server confirms that the passenger has the right to use the vehicle.

Claim 2 (Currently Amended): An inside-vehicle information communication method, comprising the steps of:

causing a server, provided in a vehicle, to output requests for electronic ticket vehicle using right information, possessed by users, to electric devices possessed by passengers of the vehicle the users, upon receipt of requests for connection from ~~outputted by~~ the electric devices;

NII, Y. et al.

Appl. No. 10/006,246

Response to Office Action dated September 23, 2005

causing the server to receive the electronic ticket vehicle-using right information, outputted from the electric devices upon receipt of the requests for the electronic ticket vehicle using right information;

causing the server to confirm, based on the electronic ticket information, whether the passengers electric devices have a the using right to use of the vehicle or not, in accordance with the vehicle-using right information, and to allow the electric devices possessed by passengers confirmed to have having the using right to use the vehicle to be connected to the server to enable communication therebetween in the vehicle;

causing the server, ~~provided in the vehicle~~, to output requests for private information, used to specify the electric devices, to the electric devices allowed to be connected to the server;

causing the server to receive the private information outputted from the electric devices upon receipt of the requests for the private information; and

causing the server to specify the electric devices in accordance with the private information.

Claim 3 (Currently Amended): The method set forth in claim 2, further comprising a step of causing the server, ~~provided in the vehicle~~, to specify individual information, which is to be given to each of the said electric devices allowed to be connected to the server, in accordance with the electronic ticket vehicle-using right information received from the electric devices that have been inputted and transportation information concerning [[a]] transportation of the vehicle that is stored in the server.

Claim 4 (Currently Amended): The method set forth in claim 3, further comprising a step of causing the server, ~~provided in the vehicle~~, to transmit the specified individual information, that has been specified, to the a corresponding electric devices device, in accordance with the respective private information for the electric devices.

Claim 5 (Currently Amended): The method set forth in claim 3, further comprising the steps of:

NII, Y. et al.

Appl. No. 10/006,246

Response to Office Action dated September 23, 2005

causing the server, ~~provided in the vehicle~~, to specify a time and/or geographical range, in which the server can be used, with respect to each of the electric devices allowed to be connected to the server, in accordance with the electronic ticket vehicle using right information received from the electric devices that have been inputted and the transportation information concerning the transportation of the vehicle that is stored in the server; and

performing a specific process with respect to one or more of the electric devices allowed to be connected to the server device, when the one or more electric devices device is to be outside away from the time and/or geographical range in which the server can be used.

Claim 6 (Currently Amended): The method set forth in claim 5, wherein the said specific process is a process for transmitting information, which indicates that the time and/or geographical range in which the server can be used is over, to the one or more electric devices device.

Claim 7 (Currently Amended): The method set forth in claim 3, further comprising the steps of:

causing the server, ~~provided in the vehicle~~, to specify a time and/or geographical range in which the users user can use the vehicle, in accordance with the electronic ticket vehicle using right information received from the electric devices allowed to be connected to the server that has been inputted; and

causing the server to inform the electric devices allowed to be connected to the server device that the time and/or geographical range is over, when these the electric devices are device is to be outside away from the time and/or geographical range in which the vehicle can be used.

Claim 8 (Currently Amended): The method set forth in claim 2, further comprising a step of causing the server, ~~provided in the vehicle~~, to perform an electric settlement via one or more of the electric devices device possessed by each user.

Claim 9 (Currently Amended): The method set forth in claim 3, further comprising the steps of:

NII, Y. et al.

Appl. No. 10/006,246

Response to Office Action dated September 23, 2005

causing the server, ~~provided in the vehicle,~~ to store information concerning a present time and/or a present position;

causing the server to calculate a deviation which occurs in a transport time and/or a transport position of the vehicle, in accordance with the transportation information ~~concerning the transportation of the vehicle that is stored in the server and the present time and/or the present position that have been inputted;~~ and

causing the server to rectify the transportation information in accordance with the deviation ~~which occurred in the transport time.~~

Claim 10 (Currently Amended): An inside-vehicle information communication apparatus which is provided in a vehicle ~~so as to transmit and receive information to and from an electric device possessed by a user of the vehicle,~~ comprising:

a communication section means for transmitting information to and receiving the information to and from an electric device possessed by a passenger of the vehicle; and

a managing section (a) for outputting a request for electronic ticket vehicle using right information, possessed by a user, to the electric device possessed by the passenger user, upon receipt of a request for connection outputted from the electric device, (b) for receiving the electronic ticket vehicle using right information via the communication section means, (c) for confirming, based on the electronic ticket information, whether the passenger electric device has a the using right to use or not in accordance with the vehicle using right information, and (d) for allowing the an electric device possessed by the passenger having the using right to be connected to the inside-vehicle information communication apparatus to enable communication therebetween if the managing section confirms that the passenger has the right to use the vehicle.

Claim 11 (Currently Amended): The inside-vehicle information communication apparatus set forth in claim 10, wherein:

the said managing section outputs a request requests for private information to specify the electric device that has been allowed to be connected to the inside-vehicle information communication apparatus, with respect to the electric device, and receives identification

NII, Y. et al.  
Appl. No. 10/006,246  
Response to Office Action dated September 23, 2005

information outputted from the electric device upon receipt of the request for the private information, and

the electric device is specified in accordance with the identification information.

Claim 12 (Currently Amended): An inside-vehicle information communication system, comprising:

an inside-vehicle information communication apparatus which is provided in a vehicle ~~se as to transmit and receive information from an electric device possessed by a user of the vehicle;~~  
and

an electric device possessed by a passenger of the vehicle,

the inside-vehicle information communication said apparatus including: a communication section means for transmitting information to and receiving the information to and from the electric device; and a managing section (a) for outputting a request for electronic ticket vehicle using right information, possessed by the user, to the electric device possessed by the passenger user, upon receipt of a request for connection outputted from the electric device, (b) for receiving the electronic ticket vehicle using right information via the communication section means, (c) for confirming, based on the electronic ticket information, whether the passenger user has the using right to use or not in accordance with the vehicle using right information, and (d) for allowing the an electric device having the using right to be connected to the inside-vehicle information communication apparatus to enable communication therebetween in the vehicle if the managing section confirms that the passenger has the right to use the vehicle,

the said electric device including:

- (a) a radio section for transmitting information to and receiving information ~~to and~~ from the communication section means of the inside-vehicle information communication apparatus;
- (b) a memory section for storing the electronic ticket saving vehicle using right information and private information; and
- (c) a controlling section for controlling the radio section and the memory section.

Claim 13 (Currently Amended): An inside-vehicle information communication system, comprising:

NII, Y. et al.  
Appl. No. 10/006,246  
Response to Office Action dated September 23, 2005

a vehicle for carrying passengers users; and  
an inside-vehicle information communication apparatus which is provided in the ~~[[a]]~~  
~~vehicle so as to transmit and receive information to and from an electric device possessed by a~~  
~~user of the vehicle,~~

the said inside-vehicle information communication apparatus including:

a communication section means for transmitting information to and receiving the  
information to and from an the electric device possessed by a passenger of the vehicle; and

a managing section (a) for outputting a request for electronic ticket vehicle using right  
information, possessed by the user, to the electric device possessed by the passenger user, upon  
receipt of a request for connection outputted from the electric device, (b) for receiving the  
electronic ticket vehicle using right information via the communication section means, (c) for  
confirming, based on the electronic ticket information, whether the passenger user has the using  
right to use or not in accordance with the vehicle using right information, and (d) for allowing  
the an electric device having the using right to be connected to the inside-vehicle information  
communication apparatus to enable communication therebetween if the managing section  
confirms that the passenger has the right to use the vehicle.

Claim 14 (Currently Amended): The inside-vehicle information communication  
system set forth in claim 12, further comprising a vehicle for carrying the passenger users.

Claim 15 (Currently Amended): The inside-vehicle information communication  
system set forth in claim 12, wherein said electric device is ~~possessed by each user, and is~~  
portable.

Claim 16 (Currently Amended): An inside-vehicle information communication  
program, wherein a server, provided in a vehicle, is made to execute respective steps of an  
inside-vehicle information communication method, the said method comprising the steps of:  
causing a server, provided in a vehicle, to output a request for electronic ticket vehicle  
using right information, possessed by a user, to an electric device possessed by a passenger of the  
vehicle the user, upon receipt of a request for connection from outputted by the electric device;

NII, Y. et al.

Appl. No. 10/006,246

Response to Office Action dated September 23, 2005

causing the server to receive the electronic ticket vehicle using right information, outputted from the electric device upon receipt of the request for the electronic ticket vehicle using right information; and

causing the server to confirm, based on the electronic ticket information, whether the passenger electric device has a the using right to use the vehicle or not, in accordance with the vehicle using right information, and to allow the an electric device having the using right to be connected to the server to enable communication therebetween if the server confirms that the passenger has the right to use the vehicle.

Claim 17 (Currently Amended): A recording medium, which stores an inside-vehicle information communication program for making a server, provided in a vehicle, execute respective steps of an inside-vehicle information communication method, the said method comprising the steps of:

causing a server, provided in a vehicle, to output a request for electronic ticket vehicle using right information, ~~possessed by a user~~, to an electric device possessed by a passenger of the vehicle the user, upon receipt of a request for connection from ~~outputted by~~ the electric device;

causing the server to receive the electronic ticket vehicle using right information, outputted from the electric device upon receipt of the request for the electronic ticket vehicle using right information; and

causing the server to confirm, based on the electronic ticket information, whether the passenger electric device has a the using right to use the vehicle and or not, in accordance with the vehicle using right information, and to allow the an electric device having the using right to be connected to the server to enable communication therebetween in the vehicle if the server confirms that the passenger has the right to use the vehicle.

Claim 18 (Currently Amended): A vehicle-provided communication network system, comprising a server, provided in a vehicle, and an information communication terminal, provided in the vehicle, which performs information communication between the server and the information communication terminal, wherein:

NII, Y. et al.  
Appl. No. 10/006,246  
Response to Office Action dated September 23, 2005

the information communication terminal ~~comprises which has~~ (a) a reading section means for reading a first using condition to use the system from a first information recording medium in which the first using condition is recorded, and (b) a transmitting section means for transmitting the first using condition, read by the reading section means, to the server; and

the server ~~comprises which has~~ (a) a memory section means for storing a second the using condition to use the system, (b) a first checking section means for checking the first using condition, transmitted from the transmitting section of the information communication terminal means, with the second using condition, stored in the memory section means, and (c) a communication controlling section means which enables information communication in the vehicle, performed between the server and the information communication terminal, only in a case where the first checking section means judges that the both the first and second using conditions are identical to each other.

Claim 19 (Currently Amended): A vehicle-provided communication network system which performs information communication between a server, provided in a vehicle, and an information communication terminal, provided in the vehicle, the server comprising:

~~the server, which has~~ (a) an external communication section means for performing the information communication with an [[a]] information communication apparatus outside the vehicle, and (b) a memory section means for storing saving identification information of a portable communication terminal connected to the information communication terminal; and

wherein the system further comprises:

a relay section means for performing a relay with respect to communication performed between the information communication apparatus and the portable communication terminal, or receiving information transmitted from the information communication apparatus, instead of the portable communication terminal, in a case where the external communication section means receives ~~the~~ information transmitted from the information communication apparatus to the portable communication terminal, the information being the identification information stored in the memory section means.



NII, Y. et al.  
Appl. No. 10/006,246  
Response to Office Action dated September 23, 2005

Claim 20 (Currently Amended): The vehicle-provided communication network system set forth in claim 18, wherein:

said server further includes:

an external communication section means for performing the information communication with an the information communication apparatus outside the vehicle; and

a storing section means for storing information received via the external communication section means from the information communication apparatus, before or after the information communication performed between the server and the information communication terminal begins, the said information communication terminal using the information stored in the storing section means after the information communication performed between the server and the information communication terminal begins.

Claim 21 (Currently Amended): The vehicle-provided communication network system set forth in claim 18, wherein the said server further includes:

an external communication section means for performing the information communication with an the information communication apparatus outside the vehicle; and

means for forwarding information, processed by the information communication terminal, via the external communication section means to the information communication apparatus outside the vehicle.

Claim 22 (Currently Amended): The vehicle-provided communication network system set forth in claim 20, wherein the said server includes assigning information registration means for registering assigning information to assign information, and obtains information assigned by the assigning information via the said external communication section means from the information communication apparatus outside the vehicle, after the information communication performed between the server and the information communication terminal begins.

Claim 23 (Currently Amended): An information recording medium issuing apparatus which issues a first information recording medium storing a using condition to use a vehicle-

NII, Y. et al.  
Appl. No. 10/006,246  
Response to Office Action dated September 23, 2005

provided communication network system in which information communication is performed in a vehicle between a server and an [[a]] information communication terminal, both located in the vehicle, and sets a first using condition to use the vehicle-provided communication network system and a second using condition to use the vehicle in advance, comprising:

a third reading section means for reading a third using condition from a second information recording medium in which the third using condition to use the vehicle is stored; a second reading section means for reading the second using condition that has been set; a ~~second~~ checking section means for checking the second using condition, read by the second reading section means, with the third using condition, read by the third reading section means; a first reading section means for reading the first using condition that has been set; and a first recording section means for recording the first using condition in the first information recording medium, wherein

said recording section means records the first using condition in the first information recording medium, when the ~~second~~ checking section means judges that the second using condition is identical to the third using condition.

Claim 24 (Currently Amended): An information recording medium issuing apparatus which issues an a-third information recording medium recording a using condition to use a vehicle-provided communication network system in which information communication is performed in a vehicle between a server and an [[a]] information communication terminal, both located in the vehicle, and a using condition to use the [[a]] vehicle, and sets a first using condition to use the vehicle-provided communication network system and a second using condition to use the vehicle in advance, comprising:

an outputting section means for outputting a third using condition to use the vehicle; a second reading section means for reading the second using condition that has been set; a ~~second~~ checking section means for checking the second using condition read by the second reading section means with the third using condition outputted by said outputting section means; a first reading section means for reading the first using condition that has been set; and a ~~second~~ recording section means for recording the first using condition, and the second using condition, in the a-third information recording medium, wherein the ~~second~~ recording section means

NII, Y. et al.

Appl. No. 10/006,246

Response to Office Action dated September 23, 2005

records the first using condition and the second using condition in the ~~third~~ information recording medium, when the ~~second~~ checking section means judges that the second using condition is identical to the third using condition.

Claim 25 (Currently Amended): The vehicle-provided communication network system set forth in claim 18, wherein the said server includes deleting means for deleting information, and the deleting means deletes information, that has been processed by the information communication terminal, after the information communication, performed between the server and the information communication terminal, is finished.

Claim 26 (Currently Amended): The vehicle-provided communication network system set forth in claim 25, wherein the said server includes an external communication section means for performing ~~the~~ information communication with an ~~[[a]]~~ information communication apparatus outside the vehicle, and the external communication section means forwards the information, that has been processed by the information communication terminal, to the information communication apparatus outside the vehicle, before the deleting means deletes the information.

Claim 27 (Currently Amended): The vehicle-provided communication network system set forth in claim 19, further comprising a switching section means for cutting off a connection between the portable communication terminal and the server so as to reconnect the said portable communication terminal to another portable communication terminal, wherein the said switching section means cuts off the connection between the portable communication terminal and the server, after the information communication performed between the server and the portable communication terminal is finished, and reconnects the said portable communication terminal to the other ~~another~~ portable communication terminal.

Claim 28 (Currently Amended): The vehicle-provided communication network system set forth in claim 19, further comprising start setting means for setting a start time when the relay begins, wherein the said server begins to relay communication performed between the

NII, Y. et al.  
Appl. No. 10/006,246  
Response to Office Action dated September 23, 2005

information communication apparatus outside the vehicle and the portable communication terminal at the start time set ~~sett~~ed by the ~~said~~ start setting means.

Claim 29 (Currently Amended): The vehicle-provided communication network system set forth in claim 19, further comprising deleting means for deleting the using condition or the identification information stored in the memory section ~~means~~, wherein the first information recording medium further stores information concerning a term of validity in which the first information recording medium can be used, and the deleting means deletes the using condition or the identification information stored in the memory section ~~means~~ after the term of validity has passed.

Claim 30 (Currently Amended): The vehicle-provided communication network system set forth in claim 18, further comprising environment setting means for setting an ~~[[a]]~~ information communication environment, wherein the ~~said~~ environment setting means sets a same information communication environment with respect to plural passengers ~~users~~ of the vehicle, or sets the same information communication environment in accordance with the information recorded in the first information recording medium.

Claim 31 (Currently Amended): A vehicle-provided communication network system, comprising a server, the ~~said~~ server including:

- a communication section ~~means~~ for performing communication with an ~~[[a]]~~ information communication terminal in a vehicle;
- a memory section ~~means~~ for storing a using condition to use the system;
- a first checking means for checking a using condition, received via the communication section ~~means~~ from the information communication terminal, with the using condition stored in the memory section ~~means~~; and
- a communication controlling section ~~means~~ which enables information communication in the vehicle ~~performed~~ between the information communication terminal and the server only in a case where the first checking means judges that the both using conditions are identical to each other.

NII, Y. et al.

Appl. No. 10/006,246

Response to Office Action dated September 23, 2005

Claim 32 (Currently Amended): An inside-vehicle information communication method, comprising the steps of:

causing a server, provided in a vehicle, to receive electronic ticket ~~vehicle using right~~ information outputted from an electric device, possessed by a passenger ~~user~~ of the vehicle, which outputs a request for connection to the server; and

causing the server to confirm, based on the electronic ticket information, whether the ~~passenger electric device~~ has a using right to use of the vehicle ~~or not, in accordance with the vehicle using right information~~, and to allow the an electric device having the using right to be connected to the server to enable communication therebetween in the vehicle if the server confirms that the passenger has the right to use the vehicle.

Claim 33 (Currently Amended): An inside-vehicle information communication apparatus which is provided in a vehicle ~~so as to transmit and receive information from an electric device possessed by a user of the vehicle~~, comprising:

a communication section means for transmitting information to and receiving the information to and from an the electric device possessed by a passenger of the vehicle; and

a managing section for (a) receiving electronic ticket ~~vehicle using right~~ information, outputted from the electric device which requests the inside-vehicle information communication apparatus to connect to the electric device, via the communication section means, and (b) for confirming, based on the electronic ticket information, whether the ~~passenger electric device~~ has a the using right to use ~~or not in accordance with the vehicle using right information~~, and (c) for allowing the an electric device having the using right to be connected to the inside-vehicle information communication apparatus to enable communication therebetween if the managing section confirms that the passenger has the right to use the vehicle.

Claim 34 (New): An in-vehicle information communication method for providing in-vehicle information communication capability to a passenger carrying onto the vehicle an information terminal in which electronic ticket information is stored, the method comprising:

NIL, Y. et al.

Appl. No. 10/006,246

Response to Office Action dated September 23, 2005

receiving at a server on the vehicle the electronic ticket information of the information terminal;

determining at the server, based on a confirming operation involving the received electronic ticket information, whether to connect the server to the information terminal; and

if the server connects to the information terminal to enable information communication therebetween in the vehicle, sending to the information terminal, from the server, notification information for notifying the passenger that the information terminal is connected to the server and can use the server for in-vehicle information communication.

Claim 35 (New): An in-vehicle information communication method for providing in-vehicle information communication capability to a passenger of a vehicle, the method comprising:

receiving at a server, from an information communication terminal on the vehicle, electronic ticket information for the passenger that is read from a storage medium carried onto the vehicle by the passenger;

determining at the server, based on a confirming operation involving the received electronic ticket information, whether to connect the server to the information terminal; and

if the server connects to the information terminal to enable information communication therebetween in the vehicle, sending to the information communication terminal, from the server, notification information notifying the passenger that the information communication terminal is connected to the server and can use the server for in-vehicle information communication.